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J Liedtke - Proceedings of the fourteenth ACM symposium on Operating ..., 1994 - [portal.acm.org](#)

... minimal sequence of essential basic actions: thread A (user mode): load id of B
 set msg length to 0 call kernel kernel: access thread B switch stack pointer ...

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M Zagha, B Larson, S Turner, M Itzkowitz - Proceedings of Supercomputing, 1996 - [doi.ieeecomputersociety.org](#)

... very low cost in terms of the per-chip resources used ... We focus on user mode in this
 paper ... The kernel maintains up to 32 different 64-bit virtual counters for the ...

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... view of thinking of it as an add-on coprocessor. ... and virtualization must apply to
 any resource at any ... be modified by the OS running in kernel mode This address ...

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J Liedtke, H Wenske - Proc. 8th HotOS, 2001 - [doi.ieeecomputersociety.org](#)

... Those resources can be locked by the kernel. ... Typically, coprocessors can only be
 locked by kernel-mode software ... If CoprocessorUsed is set the kernel locks the co ...

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[Copilot-a coprocessor-based kernel runtime integrity monitor - all 8 versions »](#)

NL Petroni Jr, T Fraser, J Molina, WA Arbaugh - Proceedings of the 13th conference on USENIX Security ..., 2004 - [portal.acm.org](#)

... security is to ensure the integrity of system resources. ... are designed to make the
 kernel re-tun ... incomplete information when queried by user-mode programs, in ...

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JE Moreira, G Almasi, C Archer, R Bellofatto, P ... - IBM Journal of Research and Development, 2005 - [research.ibm.com](#)

... Physical resources—torus and collective networks, locks, barriers ... are meaningless
 in this kernel and have ... In coprocessor mode, a single dual-threaded process ...

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... detected by running GhostBuster in the advanced mode. ... employ a wide variety of resource-
 hiding techniques ... [J01] K. Jones, "Loadable kernel modules," login ...

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[\[PS\] Dynamic processor modes in Puma - all 2 versions »](#)

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... Page 5. not perform any of the resource management activities, it only notes the

system processor when there is a ... Kernel Kernel ... **Figure 3: User Coprocessor Mode ...**

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Threads and input/output in the synthesis kernel - all 15 versions »

H Massalin, C Pu - Proceedings of the twelfth ACM symposium on Operating ..., 1989 - portal.acm.org

... a bus-fault exception, even in the kernel mode. ... waiting thread is locked for some event or resource. ... threads do not use the floating point co-processor. ...

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An Open-source Cryptographic Coprocessor - all 17 versions »

P Gutmann - usenix.org

... specialised, expensive embedded or real-time kernel or OS ... going and has the smallest resource requirements, it ... a bootstrap loader for real-mode applications and ...

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... Hence the resulting kernel mode encryption rate was over 35 MB/s. A user mode version using the ... system is simpler, uses less resources than conventional ...

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Method to manage coprocessor in a virtual machine data processing system - all 3 versions »

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... an extension of the UNIX system V kernel, and a ... user to select a combination of system resources that are ... PCSTART also provides a prompting mode for the casual ...

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... If resource contention prevents the network from accepting ... Control over user-level interrupts is implemented by ... bits are only modifiable in kernel mode and are ...

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... In the third mode, compute co-processor mode, the sys ... However, the kernel code running on the application ... does not perform any resource management activities ...

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... combined with more embedded resources, as for ... AcoUlsmon I _ I Kernel mode _ _ I ... implementation of the Reconfigurable Instrumentation Coprocessor. ...

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... RD stage registers according to the resource conflicts coming ... CPO is called the system control coprocessor and is ... The processor is in Kernel mode when KSU is ...

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... to have sufficient access to the resources of the ... interrupts are disabled during operation in the kernel mode. ... Coprocessor Unit The coprocessor unit is used to ...

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... A kernel for each media module to switch tasks is ... In the VLIW mode, a 32-bit fixed length ... Decoder utilizes the DSP extension with a resource sharing technique ...

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... the IPSec- related processing is performed in kernel mode. ... bandwidth was limited through the kernel's device ... time, using IPComp can be resource consuming for ...

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Tour of the Linux Kernel Source - all 2 versions »

A Rubini - Linux Documentation Project - ldp.dvo.ru

... known that the filesystem is the most basic resource in a ... It isn't unlikely for your kernel to be somewhat ... When in normal mode, the character being printed is ...

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A Pfiffer - devresources.linux-foundation.org

... Early Init Kernel Disk Probe Kernel Late Init User-mode Init ... kernel, and similar in function to Two Kernel Monte ... Resources Open Source Development Lab Resources: ...

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M De Ford - 2001 - bu.edu

... exports kernel services to user mode applications and contains five vital system ...

1. The Process Manager is responsible using Kernel services to ... resource access ...

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R Riesen

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[An overview of NGSCB](#)

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... be allowed to access a resource r in mode a if ... it does not share memory or similar resources with the ... An isolation kernel (identified by its code identity) can ...

[Cited by 10](#) - [Related Articles](#) - [Web Search](#)

[R4200: a high-performance MIPS microprocessor for portables](#)

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... or store which requires external resources, the pipe ... 3: Memory-management and system-control coprocessor ... kernel physical address space in @-bit kernel mode. ...

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[UU UU UU UU](#)

US Patent 3,858,182, 1974 - Google Patents

... three-mode machine this would mean the use of 24 ... a group of sixteen individually addressed b. Resource management — The ... 112fc as well as a kernel stack pointer 13 ...

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R Bhardwaj, P Reames, R Greenspan, VS Nori, E Ucan - University of Illinois, Urbana-Champaign, CS523 Course ..., 2006 - russelgrengspan.com

... privileged machine instructions and resources not available ... There are three types of coprocessor instructions: Data ... support running in kernel-mode, which hosts ...

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... In the third mode, compute co-processor mode, the system ... However, the kernel code running on the application ... does not perform any resource management activities ...

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... and application resource availability [5]. In Cougar, all of the resources on a compute ... In the second mode, message co-processor mode, the kernel runs on ...

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... in 9 cycles at both user or kernel levels. ... The interface resorts to the buffered mode when a message ... the application the illusion of a very large resource. ...

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... images before the virtual machine ran out of resources" (Thornton 2000 p ... sensitive' (ie needed to be run in OS kernel supervisory mode) but did ...

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PA Bourekas - US Patent 6,598,050, 2003 - freepatentsonline.com

... an operating system trap during an operation to shared or protected resources. ... modes of operation, eg, user mode, supervisor mode, and kernel mode, may use ...

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... information indicative of the status of resources; and the ... needed in order for the coprocessor to determine ... One address is used for kernel mode commands, and ...

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M Kamel, JPD Keast, C Pal - Computer Science 746G, Software ArchitectureUniversity of ..., 1998 - cs.umass.edu

... services run in kernel mode not user mode. ... management, loading modules and reserving certain kernel resources. ... specic component of the Kernel is responsible ...

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... We discussed cross-view diff-based hidden resource detection for ... easy way to detect all user-mode rootkits: by ... J01] Jones, K., "Loadable kernel modules," login ...

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... core here represents a generic programmable resource for which ... system: one is the SystemC simulation kernel, while the other is the user mode Linux virtual ...

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[PDF] Fiasco-Kernel User-Mode Port - all 3 versions »

U Steinberg - os.inf.tu-dresden.de

... only implement a few stubs in kernel space ... merely ensures the protection of these resources or makes ... a library operating system which user mode applications are ...

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GM Uhler - US Patent 7,181,600, 2007 - Google Patents

... The kernel mode instructions also have access to the GPR ... one embodiment, the privilege level resources 112 of ... performing such tasks is called Coprocessor 0, or ...

[Related Articles](#) - [Web Search](#)**[CITATION] Design and Implementation of a Secure Linux Device Encryption Architecture**AR Sadeghi, C Stubble, M Winandy, M Scheibel - Technical report, The EMSCB Project, 2006. available at <http://...>[Related Articles](#) - [Web Search](#)**[CITATION] Laboratorio di Sistemi Operativi aa 2002-2003 Modulo 2-MPS**

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... Command Buffer Scheduler 406 j> CB selected ffor dispatch Kernel Mode Driver 707 ...

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... management, • multiple data transfer instructions, • freeze-mode operation, • multiprocessor ... registers is expensive in terms of time and resources. ...

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... as basic means to handle multiple accesses to resources. ... an additional group of services for the cyclic execution mode. ... of the areas where a kernel can benefit ...

[Web Search](#) - [BL Direct](#)**[PDF] the Ability to Run An Operating System - all 2 versions »**IALSS Port - [it.kth.se](#)

... That way it can utilize the resources better ... Since all SimpleScalar simulators today run user-mode programs the ... mainly the new features of sim-kernel , for more ...

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[\[PDF\] A Hypervisor for Embedded Computing](#)

P Reames, E Chan, F David, J Carlyle, R Campbell - [academic.ec.uiuc.edu](#)

... **saving features, and an extendable coprocessor framework** ... In embedded environments, the resource consolidation case ... When in guest kernel mode, all regions under ...

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[Method and apparatus for controlling interrupts in a secure execution mode-capable processor - all 3 versions »](#)

DS Christie, KJ McGrath, GS Strongin - US Patent 7,165,135, 2007 - [Google Patents](#)

... **may give exclusive control of those resources to Security** ... no provision for the OS kernel to disable ... be compromised when trusted execution mode internal proces ...

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DN Cutler, DA Orbits, D Bhandarkar, W Cardoza, RT ... - EP Patent 0,301,707, 1989 - [freepatentsonline.com](#)

... **control to a routine that decodes the co-processor op-code** ... of the issue unit 22 that allocates the resources of the ... The kernel mode 4B is the mode in which the ...

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[System and method for enhancing performance of a coprocessor - all 3 versions »](#)

AB GOSALIA, S PRONOVOST - EP Patent 1,450,258, 2004 - [freepatentsonline.com](#)

... **eliminated through the user of a per-coprocessor-context address** ... buffers for memory access 3) Building memory resource lists in kernel mode 4) Creating ...

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TP Bishop, RW Fish, JS Peterson - EP Patent 0,272,637, 1983 - [freepatentsonline.com](#)

... This co-processor, while effective for some situations, cannot be ... broken" only by the event or resource for which ... is about to return from kernel mode to user ...

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... This is important in order to be able to share resources among tasks ... from any code running in supervisor mode. This means that a faulty kernel is able to ...

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... **resources in the SDRAM** ... A kernel for each MM to switch tasks is also customized based on the nature of the ... 2) Descriptor chain mode to chain some DMA transfers ...

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... This operation mode is useful when multiple users share a workstation and its resources. ...

The Linux 2.6.12 kernel for example comprises 4.4 million lines ...

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 ... of mechanisms that aim at scanning system resources and detecting ... i-mode to return control to the caller, the OS kernel. ... block cipher in a CBC-MAC mode (see [1 ...
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Device for enhancing the performance of a real time executive kernel associated with a ... - all 2 versions »

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 ... with the objects managed by a kernel, especially tasks ... to process a primitive, this mode comprising verification ... The RTO manipulates several types of resource: ...
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 ... 4-12 64-bit Kernel Mode, Compatibility Spaces (ckseg1:0, cksseg, ckseg3 ... v
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H Stamer, JS fur Anwendungsprogramme, T GRUB, S ... - Kryptowochenende 2006—Workshopuber Kryptographie ... - th.informatik.uni-mannheim.de
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 ... Also, a kernel address space, which can only ... privileged mode with appropriate status bits and pointer ... control accesses to shared hardware resources(not visible ...
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RISC PROCESSOR WITH CONTEXT SWITCH REGISTER SETS ACCESSIBLE BY EXTERNAL COPROCESSOR - all 5 versions »

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 ... of SONET and ATM telecommunications tax the resources of RISC ... three instruction cycles and back to user mode in another ... 2 with the pointer from kernel RAM KO ...
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... user process performs acquisition/release of resources such as ... from the user mode to the kernel mode, according to ... 6, and in general, the kernel 6 abnormally ...

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... will base access-control decisions on both program and user resource requests ... User mode. ... half of the figure represents a small high-assurance OS kernel, which we ...

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... Chapter 1 - System Overview, Resources, Expectations and Results ... issues instructions over the coprocessor bus; instead ... from user-mode to kernel-mode for system ...

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... memory is disclosed. In a "test mode" of operation, caches are accessed directly from the memory interface signals. Direct writing ...

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... by the microprocessor if it is in "kernel" mode. ... leged (kernel) instruction, where the control register has ... what is called the Privileged Resource Architecture ...

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... in host memory (for example kernel data structures ... event log files, policy parameters, resource usage and ... switching between a "telecommuter user" mode and an ...

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... Physical resources—torus and collective networks, locks, barriers ... are meaningless in this kernel and have ... In coprocessor mode, a single dual-threaded process ...

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... of SONET and ATM telecommunications tax the resources of RISC ... three instruction cycles and back to user mode in another ... 2 with the pointer from kernel RAM k0 ...

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... systems, as should any "priv-ileged" co-processor state ... au- thorization from the actual use of a resource. ... of simple operations that the kernel (or hardware ...

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... from the PMT, thereby releasing all the memory resources used by ... of the peripheral is restricted to privileged-mode processes, eg the kernel process, and ...

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... endure and the fact that at the thread level only limited resource management facilities ... typical UNIX kernel, then the process and mode switching time ...

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... To enable this mode of operation, NGSCB platforms ... decisions on both program and user resource requests. ... for measuring and recording a booting kernel's digest ...

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... Section 3.2, and hooks into various kernel data structures ... white-lists about which system resources are used ... was run as root in standalone mode (command line ...

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... User mode can access the system control coprocessor only if the cu[0] bit is set in the status register. Kernel mode can always access CP0, ...

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L Molesky - isis.vanderbilt.edu

... 3 Page 5. to the pools. These resources include all segments, eg pages for text, data, and stack, memory maps, and the PCB. ... mode Either KERNEL or USER ...

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... inflicts damages with full, unrestricted access to the system's resources. ... a page may be set executable in user mode but non-executable in kernel mode. ...

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... for maximizing both message passing throughput and application resource avail- ability ...

When the processors are configured in this mode, the kernel runs con ...

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When the processors are configured in this mode, the kernel runs con ...

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... On Host Processor On the LANai network co-processor ... reducing the layers between hardware resources and user ... switches from user to kernel mode, and eliminating ...

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G Aimagi, R Bellofatto, J Brunheroto, C Cascaval, ... - Proceedings of the Euro-Par - Springer

... Physical resources (torus, tree, mutexes, barriers, scratchpad) are ... of compute modes for our custom kernel. ... In co-processor mode, the application runs in a ...

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... the pipeline until the resource contention ends ... occurs, the processor halts regardless of kernel/user mode. ... 3.7 Coprocessor Registers Coprocessor registers are ...

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... However, to manage resources effectively, the operating system retains a ... can perform are the basic user operations and the kernel mode operations detailed ...

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Pilchard (A Reconfigurable Computing Platform with Memory Slot Interface

NT Shatin - doi:ieeecomputersociety.org

... Hence the resulting kernel mode encryption rate was over 35 MB/s. A user mode version using the ... sys-tem is simpler, uses less resources than conventional ...

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... which is used to enable the floating point coprocessor. ... process could use the same resources, conflicting with ... the current processor ring is kernel mode when a ...

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... overall load placed upon the shared resources (com-munication ... In the SPMD mode, one could reasonably expect similar ... memory since the time the kernel was booted ...

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... Tamperproof: the TCB itself and the resources that control ... code ran in the processor's kernel mode on LOCK ... Most TCB functions ran in user mode, including the ...

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M Dai Cin, A Grygier, H Hessenauer, U Hildebrand, ... - Parallel Computer Architectures, Lecture Notes in Computer ... - Springer

... the stable storage appears like a coprocessor which can ... to assume that the amount of resources, such as ... execution of the operating system in kernel mode is far ...

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